OSTROVSKIY, V.Ye.; KARPOVICH, I.R.; KUL'KOVA, N.V.; TEMKIN, M.I.

Calorimeter for measuring the heats of chemisorption at elevated temperatures. Zhur. fiz. khim. 37 no.11:2596-2600 N163.

(MIRA 17:2)

1. Fiziko-khimicheskiy institut imeri Karpova, Moskva.

NAKHMANOVICH, M.L.; MOROZOV, N.M.; BUADZE, L.G.; TEMKIN, M.I.

Kinetics of the catalytic exchange of deuterium between water vapor and hydrogen on various surfaces. Dokl. AN SSSR 148 no.6:1346-1349 F 163. (MIRA 16:3)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno akademikom N.M.Zhavoronkovym.

(Catalysis) (Water vapor) (Deuterium)

TEMKIN, M.I.

Kinetics of stationary resctions. Dokl. AN SSSR 152 no.1:156-159 (MIRA 16:9)

1. Predstavleno akademikom A.N.Frumkinym.
(Chemical reaction, Rate of)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

SMIRNOV, I.A.; MOROZOV, N.M.; TEMKIN, M.I.

Kinetics of ammonia synthedis when the catalyst is poisoned by water vapor. Dokl. AN SSSR 153 no.2:386-389 N 163. (MIRA 16:12)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno akademikom N.M.Zhavoronkovym.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

OSTROVSKIY, V.Ye.; KUL'KOVA, N.V.; KHALSON, H.S.; TEMKIN, M.I.

Kinetics of the oxidation of ethylene to ethylene oxide on a selenium-promoted silver catalyst. Kin. i kat. 5 no.3:469-477 (MIRA 17:11)

1. Fiziko-khimicheskiy institut imeni Karpova.

MOROZOV, N.M.; IUK'YANOVA, L.I.; TEMKIN, M.I.

Kinetics of armonia synthesis on alloys of iron and cobalt.

Kin. i kat. 6 no.1:82-88 Ja-F '65.

(MIRA 18:6)

1. Fiziko-khimicheskiy institut imeni Karpova, Moskva.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

SHCHIBRYA, G.G.; MOROZOV, N.M.; TEMKIN, M.I.

等数。

Kinetics and mechanism of catalytic reaction between carbon monoxide and water vapor. Part 1: Reaction on ferrochromium oxide catalyst. Kin. i kat. 6 no. 6:1057-1068 N-B *65 (MIRA 19:1)

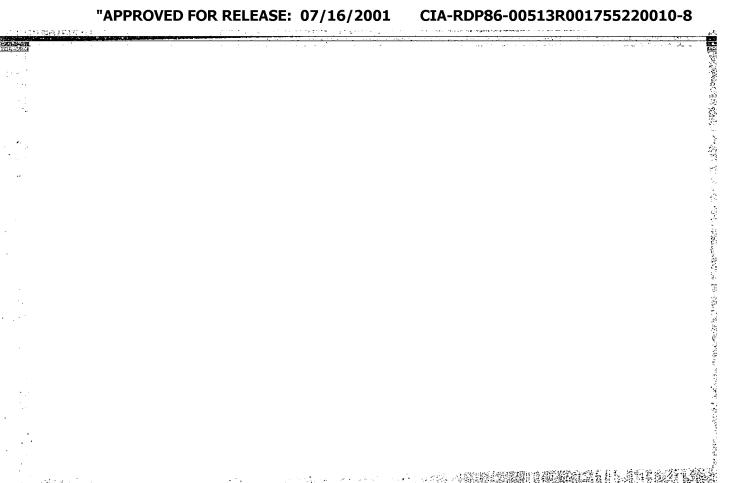
1. Fisiko-khimicheskiy institut imeni Karpova. Submitted February 13, 1965.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

SHCHIBRYA, G.G.; MOROZOV, N.M.; TEMKIN, M.I.

Minetics and mechanism of a catalytic reaction between carbon monoxide and water vapor. Fart 2: Reaction on a zinc-chromium copper oxide catalyst. Kin. i kat. 6 no. 6:1115-1117 N-D *65 (MIRA 19:1)

1. Fiziko-khimicheskiy institut imeni Karpova. Submitted February 13, 1965.



TEMKIN, M.I.

Kinetic equations of complex reactions deduced by a graphic method. Dokl. AN SSSR 165 no.3:615-618 N *65.

(MIRA 18:11)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. Submitted April 22, 1965.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

LEVITIN, S.G., inzh.; TEMKIN, M.S., inzh.

Problems of designing roll stabilizers with maneuverable lateral fins before preliminary ship drawings. Sudostroenie (MIRA 14:11) 27 no.9:18-21 S :61.

(Stability of ships)

S/195/60/001/003/006/013 B013/B058

AUTHORS:

Bykhovskiy, V. K., Temkin, O. N.

TITLE:

On the Problem of the Mechanism of the Homogeneous Catalytic

Activation of Monomolecular Hydrogen

PERIODICAL: Kinetika i kataliz, 1960, Vol. 1, No. 3, pp. 374 - 378

TEXT: With the aid of existing experimental material, the authors explained the problem of the mechanism of the homogeneous catalytic activation of molecular hydrogen with various catalysts. A transition state is suspected under participation of a loosening molecular orbit of the ligand (H₂) (dative bond). Some possible models of the transition state during the hydrogen activation were tested. The conception of the dominating significance of a donor-acceptor bond corresponds in the transition

state to the complex

 H^+ or H^+ or H_2 . In this case the effects

Card 1/4

On the Problem of the Mechanism of the Homogeneous Catalytic Activation of Monomolecular Hydrogen 8/195/60/001/003/006/013 B013/B058

due to the possibility of a dative bond can be viewed on the following

models: H

(dative bond with unpaired electron

or unshared electron pair respectively). In these particles bond energy and internuclear show a correlation with the order of bond (Table) so that certain conclusions may be drawn for complexes with unknown parameters, on the basis of the order of bond. The conditions of linkage, determined on models of transition complexes, confirm the supposition expressed and uncover a joint trend in the mechanism of activation of saturated and unsaturated molecules (H₂, C₂H₂, C₂H₄ etc.). This trend is tantamount to the participation of loosening molecular orbits, of the activated molecules and agrees with the experimental data on the reactions of these compounds. The proposed mechanism gives a satisfactory explanation for the difference in the catalytic activity of metal ions, for

Card 2/4

On the Problem of the Mechanism of the Homogeneous Catalytic Activation of Monomolecular Hydrogen

S/195/60/001/003/006/013 B013/B058

the effect of ligands as well as for the mechanism of activation with particles of the type R , OH , NH_2 etc. Thanks are expressed

to T. K. Rebane by the authors for discussing the study. Ya. K. Syrkin and Kucherov are mentioned. There are 1 table and 28 references: 12 Soviet, 8 US, 3 German, 1 Japanese, and 1 Swiss.

ASSOCIATION:

Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov). Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED:

March 12, 1960 .

Card 3/4

\$/195/60/001/003/006/013 B013/B058

Ком- плекс 1)	Погядок связи, р	Энергия связи, ас 3)	Межъядер- ное рассто- янце, А	Лите- ратура
H; H; H; H; H;	0 1/2 1/2 1/3 1 · 2/3	2,73 2,4 4,74	- 1,07 0,86 - 0,74	(18) (20)° , (11)

Legend to the Table: characteristics of the model-complexes.

1) Complex; 2) order of bond; 3) bond energy, ev; 4) internuclear distance; 5) references.

Card 4/4

5.3400

77925 sov/79-30-2-76/78

AUTHORS:

Temkin, O. N., German, E. D., Flid, R. M.

TITLE:

Letters to the Editor. The Part of Proton Acids in

Certain Catalytic Conversions of Acetylene

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 2, p 699 (USSR)

ABSTRACT:

The relation between metal ion activity in solution and proton activity in the addition reactions of acetylene was investigated. Hydration of acetylene was carried out in contact solution containing $\mathrm{Cu_2S0_4} - \mathrm{H_2S0_4}$. The

latter was prepared by boiling $CuSO_{1\!\!4}$ + $H_2SO_{1\!\!4}$ with metallic

copper in nitrogen. The concentration of CuSO4 in all

cases was 0.0128 mole. It was established that conversion of acetylene decreases with increase of the acid concentration, caused by formation of copper acetylides, until concentration of acid reaches 10%. At this point, acetaldehyde is formed. Introduction of the acetylene into solution decreases potential of

Card 1/2

"APPROVED FOR RELEASE: 07/16/2001 CIA-R

CIA-RDP86-00513R001755220010-8

Letters to the Editor. The Part of Proton Acids in Certain Catalytic Conversions of Acetylene

77925 **sov**/79-30-2-76/78

the copper electrode from \mathbf{E}_1 to \mathbf{E}_2 . Passing nitrogen through the contact solution increases this potential to a value smaller than \mathbf{E}_1 . It was established that the termination of the formation of acetylides and the maximum concentration of acetaldehyde takes place at a definite ratio of potential to proton activity. There are 5 Soviet references.

Card 2/2

TEMKIN, O.N.; FLID, R.M.; GERMAN, E.D.; ONISHCHENKO, T.A.

Soluble complexes of unsaturated hydrocarbons with metal salts, and their role in catalytic reactions. Part. 1: Soluble compounds of acetylene with copper salts. Kin. i kat. 2 no.2:205-213 Mr-Ap (MIRA 14:6)

161.

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova.

(Copper compounds)

(Acetylene compounds)

FLID, R.M.; TEMKIN, O.N. (Moscow)

Kinetics and mechanism of catalytic transformations of acetylene. Part 5: Certain problems in selecting catalysts for the liquid phase hydration of acetylene. Zhur. fiz. khim. 35 no.2:452-459 F *61.

l. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova. (Acetylene) (Hydration) (Catalysts)

s/195/62/003/006/011/011 E075/E436

O.N., Flid, R.M., Malakhov, A.I.

AUTHORS: TITLE:

Soluble complexes of unsaturated hydrocarbons with metal salts and their role in catalytic reactions Temkin, II. Soluble compounds of acetylene with silver salts

PERIODICAL: Kinetika i kataliz, v.3, no.6, 1962, 915-919 In connection with the studies of the mechanism of hydration of acetylene in silver salt solutions, it becomes necessary to elucidate the possibility and conditions for the formation of the M-complex. The thermodynamics of the complex formation were investigated by a potentiometric method (Kinetika The silver electrode was prepared by depositing Ag on a platinum spiral at the current density of 0.003 A/cm² and was immersed in aqueous 1 to 7 MH2SO4. As acetylene was passed through the solutions, the electrode potential decreased irreversibly (ΔE_1) and reversibly (ΔE_2) . ΔE_1 was related to the formation of Ag2C2. ΔE_2 decreased with the increasing concentration of H2SO4, but increased and passed through a maximum with increasing temperature (from 20 to 100°C) Card 1/3

5/195/62/003/006/011/011 E075/E436

Soluble complexes ..

This indicated that a soluble half-acetylide $HC \equiv CAg$ formed in addition to the Π -complex. The reactions taking place are as follows: K1

$$Ag_{aq}^{+} + C_{2}H_{2aq} \stackrel{1}{\longleftrightarrow} AgC_{2}H_{2aq}^{+}$$
 (1)

$$Ag^{\dagger}_{aq} + C_{2}^{H}_{2aq} \stackrel{K_{2}}{\longleftrightarrow} AgC_{2}^{H}_{aq} + H^{\dagger}_{aq}$$
 (II)

The enthalpy values for reactions I and II are -13.20 and +6.86 respectively. Low catalytic activity of silver salts in the hydration process in comparison with that of copper salts is explained by low values of K_1 [K1 (373°C) = 0.6 litre/mole] compared with the corresponding value for Cu (20 litres/mole). The strong tendency to acetylide interaction prolongs the Moreover high acidities formation of the halfacetylide. (6 to 7 M H₂SO₄) necessary for decreasing the acetylide interaction, cause a strong dehydration of the M-complex, which Card 2/3

Soluble complexes ...

\$/195/62/003/006/011/011 E075/E436

makes the hydration of acetylene more difficult. 6 figures and 2 tables. There are

ASSOCIATION: Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova (Institute of Fine Chemical

Technology imeni M.V.Lomonosov)

SUBMITTED:

October 16, 1961

Card 3/3

TEMKIN, O.N., FASMAN, A.B.; DURGAR'YAN, S.G.; ROZOVSKIY, A.Ya.

Conference on the catalytic reactions in the liquid phase. Kin.i kat. (MIRA 16:3)
4 no.1:168-174 Ja-F 163. (Catalysis-Congresses)

TEMKIN, O.N.: FLID, R.M.; MALAKHOV, A.I.

Soluble complexes of unsaturated hydrocarbons with metal salts and their role in catalytic reactions. Part 3: Soluble 77-complexes of mercury (11) with acetylene. Kin.i kat. 4 no.2: 270-276 Mr-Ap 163. (MIRA 16:5)

(Catalysis)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

MOGILYANSKIY, A.I.; TEMKIN, O.N.; FLID, R.M.; BUNINA, R.V.

Potentiometric determination of divalent mercury concentration using a mercury electrode. Zhur.anal.khim. 18 no.10:1211-1216 0 163. (MIRA 16:12)

1. M.V.Lomonosov Moscow Institute of Fine Chemical Technology.

TEMKIN, O.N.; GINZBURG, A.G.; FLID, R.M.

Soluble complexes of unsaturated hydrocarbons with metal salts and their role in catalytic reactions. Part 4:Thermodynamics of the formation of soluble 7-complexes of ethylene with Ag+ and Cu+ ions. Kin. i kat. 5 no.2:221-227 Mr-Ap 164. (MIRA 17:8)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

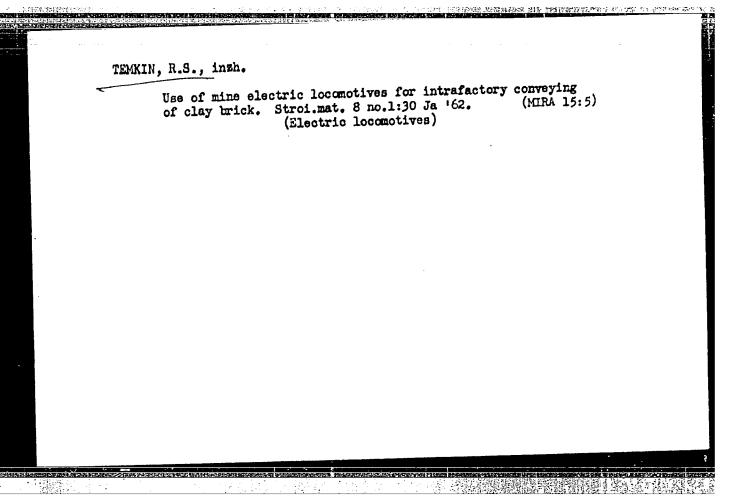
CRIGOR YEV, V.A., kand. tekhn. nauk; KOLACH, T.A., dots.; SOKOLOVSKIY, V.S., assistent; TEMKH, R.M., inzh.; LEBEDEV, P.D., doktor tekhn. nauk, prof., red.; ANTIKAYN, P.A., red.; BORUHOV, N.I., tekhn. red.

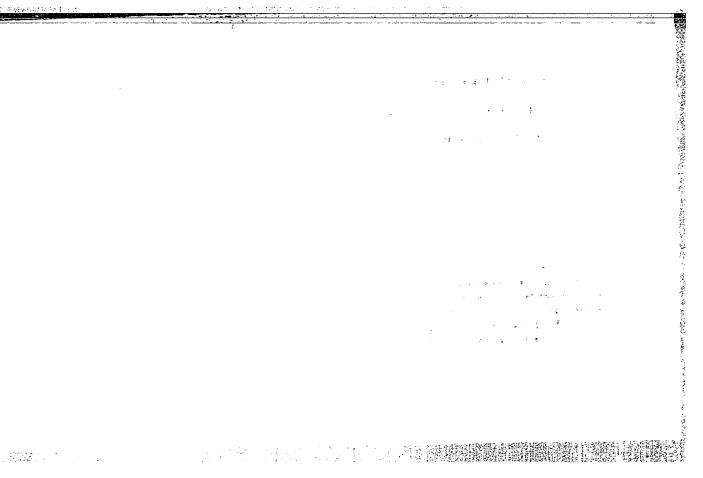
精生.

[Concise manual on heat exchangers]Kratkii spravochnik po teploobmennym apparatam. By V.S.Grigor'ev i dr. Fod red. P.D.Lebedeva. Moskva, Gosenergoizdat, 1962. 255 p. (MIRA 15:9)

(Heat exchangers)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"





TENKIN, S. Ye.

PA 19T15

Jun/Jul 1946

USSR/Radio Waves - SHF Oscillators, Electric

"Measuring the Power of Oscillators in the Decimeter and Centimeter Wave Eands," Engrs M, I. Karpovskiy, S. Ye. Temkin, Ye. D. Naumenko, 8pp

"Radiotekhnika" Vol I, No 3/4

The load on an oscillator is the wave impedance of a line with a propagating wave, reduced by an impedance transformer to a certain magnitude. The lower is measured over a section of the line with propagating voltage wave. A design for am impedance transformer is suggested.

TEMKIN, S. YE.

109-8-11/17

AUTHORS: Temkin, S. and Krolevets, K.M.

The Effect of Temporary Deterioration of the Rectifying Characteristics of Crystal Diodes during their Work at High Frequencies. (Effekt vremennogo ukhudsheniya TITLE: detektiruyushchikh svoystv kristallicheskikh diodov pri

rabote ikh na vysokikh chastotakh)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, Nr 8, pp.1062-1070 (USSR)

ABSTRACT: A number of experimental investigations were carried out on point contact semi conductor diodes at microwaves. The measuring equipment (shown in Fig.1) consists of an ultra high frequency generator producing pulses of 5 W output power; the pulses have a duration of 1 microsec and a repetition frequency of 1000 c/s. Altogether 100 different detector diodes were measured. It was found that if a diode is subjected to the action of short, powerful pulses (as in the equipment of Fig.1), the rectified current gradually decreases. The process takes several tens of secs and reaches a steady state value. When the pulsing is interrupted the diode recovers and after a few minutes its characteristic returns to the original value. This type of deterioration is reversible and quantitatively

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109-8-11/17

The Effect of Temporary Deterioration of the Rectifying Characteristics of Crystal Diodes during their Work at High Frequencies.

it can be represented by a ratio $\frac{J_1 - J_2}{J_1}$ where J_1 is

the rectified current at the inception of the experiment and J₂ is the steady state current after the deterioration. The experimental results are shown graphically in Figs.2 to 10. An attempt is made to explain the mechanism of the process. It is thought that the effect can be explained by assuming that in the near-contact area of a plained by assuming that in the near-contact area of a plained by assuming that in the near-contact area of a plained by assuming that in the near-contact area of a plained by assuming that in the near-contact area of a plained by assuming that in the near-contact area of a plained by assuming that in the near-contact area of a plained by assuming that in the near-contact area of a plained by assuming that in the near-contact area of the capturing centres which the deterior at ions. The capturing centres form a space charge in the region of the barrier layer, which leads to a decrease in the thickness of the barrier layer and ultimately, to the deterioration of the rectifying properties of the diode, due to the effective increase of the capacitance of the barrier. After the disappearance of the pulse a process of deionization of the capturing centres takes place and the detector

Card 2/3

109-8-11/17

The Effect of Temporary Deterioration of the Rectifying Characteristics of Crystal Diodes during their Work at High Frequencies.

returns to its original state. There are 11 figures and 4 references, of which 1 is Slavic.

SUBMITTED: April 5, 1956.

AVAILABLE: Library of Congress.

Card 3/3

sov/4223 PHASE I BOOK EXPLOITATION

Temkin, Solomon Yefimovich

- Impul'snyye modulyatornyye lampy (Pulse Modulator Tubes). Moscow, Voyenizdat M-va obor. SSSR, 1960. 90 p. (Series: Radiolokatsionnaya tekhnika). No. of copies printed not given.
- Ed.: V. T. Vladimirov, Engineer-Colonel; Tech. Ed.: R. F. Anikina.
- PURPOSE: This booklet is intended for military officers engaged in radio engineering. It may also be used by the general reader interested in radar.
- COVERAGE: The booklet describes the purpose, principle of action, arrangement and utilization of powerful pulse modulator tubes and hydrogen thyratrons. Considerable attention is paid to the correct operation and reliability of the tubes. Problems concerning the joint operation of tubes and other components of the modulator circuit are reviewed. Physical processes related to the stability of tube operation are examined in detail. No personalities are mentioned. There are 7 Soviet references.

card 1/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

BLE OF	ulator Tubes CONTENTS: eration of Modulator Tubes in the Transmitter Unit a Radar Station	3
I. Op	eration of Modulator Tubes in the Transmitter Unit	3
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II. Mo	dulator Vacuum Tubes Special design features and electrical parameters Grid currents of a modulator tube. Circuit diagrams	13 13 22
3. 4. 5. 6.	Pulse plate characteristics. Quiescent point of the characteristic Circuit diagrams of modulator tubes Breakdowns of modulator vacuum tubes Operation and maintenance of tubes	33 37 40 41
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	II. Mo 1. 2. 3. 4. 5. 6.	 Modulator Vacuum Tubes Special design features and electrical parameters Grid currents of a modulator tube. Circuit diagrams of grid circuits Pulse plate characteristics. Quiescent point of the characteristic Circuit diagrams of modulator tubes Breakdowns of modulator vacuum tubes Operation and maintenance of tubes

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3. 4.	Disc Char circ Plat tror Seri	charge circuit of a linear modul rge circuits of an artificial li	lator 60 ine and the shunting 69 . Stability of thyra-		
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USSR / Ceneral Riology. Cenetics.

B-5

Abs Jour

: Rof Zhur - Biol., No 12, 1958, No 52447

Author

: Tenkin, V. I.

Inst

: Not given

Title

: Experimental Vegetative Hybridization of Peas.

Orig Pub

: Agrobiologiya, 1957, No. 2, 65-69

Abstract

: The behavior of grafts and their descendants was studied in using as the graft components pea varieties differing in length of vegetative period, flower color, seed color and shape, and other characteristics. Genetic analysis of the experimental data and statistical treatment of the

results obtained are not included.

Card 1/1

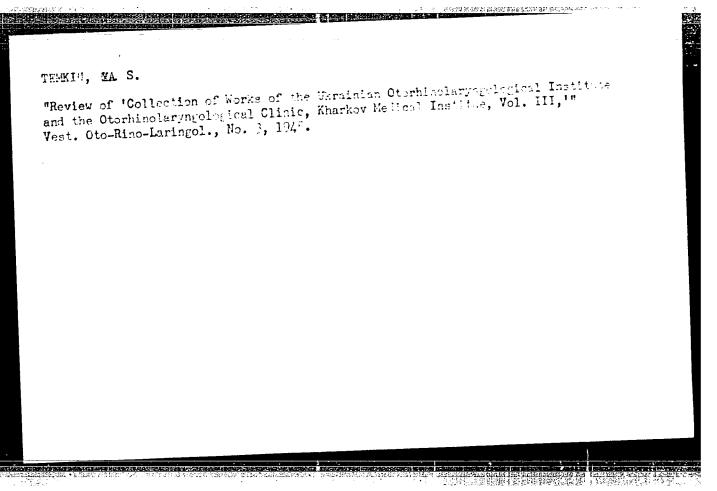
2、10、10年中的18年18日,18年18年18日,18年

GAYSENOK, A.A., otv.red.; TEMKIN, Ya.G., otv.red.; GLOZMAN, M.K., otv. red.; MISHKEVICH, G.I., red.; STOLYARSKIY, L.L., red.; FRUMKIN, P.S., tekhn.red.

[How they built the atomic icebreaker "Lenin"] Kak byl postroen atomnyi ledokol "Lenin." Leningrad, Gos.soiuznoe isd-vo sudo-stroit.promyshl., 1959. 62 p. (MIRA 13:3)

1. Admiralteyskiy sudostroitel'nyy zavod (for Gaysenok, Temkin, Glozman).

(Lenin (Atomic ship))



TERKIN, MA. S., &d.

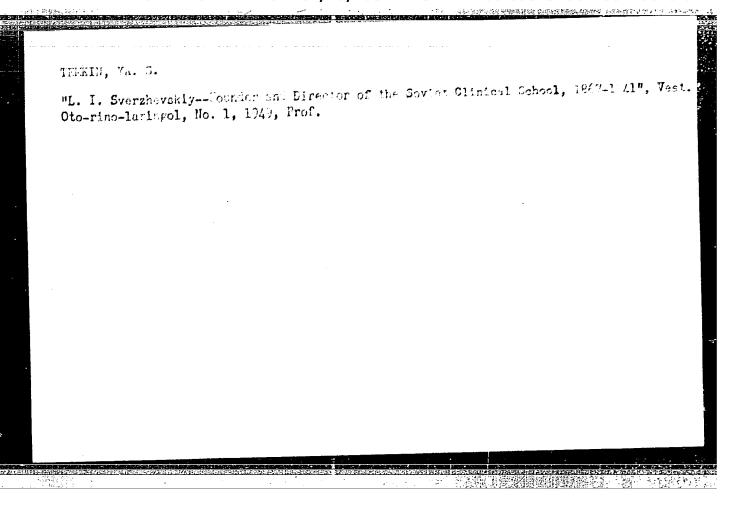
Surge y in diseases of the nodes, nasal sinuses, and nasopharymx; doctor's canual.

Moskva, Medgiz, 19.9. 618p. (50-56589)

RF51.T4

1. Nose - Diseases. 2. Nose - Surgery

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"



1. 次二、在海洋有着压力的 化环状物 1978年8年8年1

TFMKIN, Ya. S.
YERHOLAYEV, V.G., redaktor; PREOBRAZHENSKIY, B.S., redaktor; RUTEMBURG, D.M., redaktor; TEMKIE, Ya.S., redaktor; ALEKSAHIROV, I.H., redaktor; redaktor; GABERLAND, M.I., tekhnicheskiy redaktor

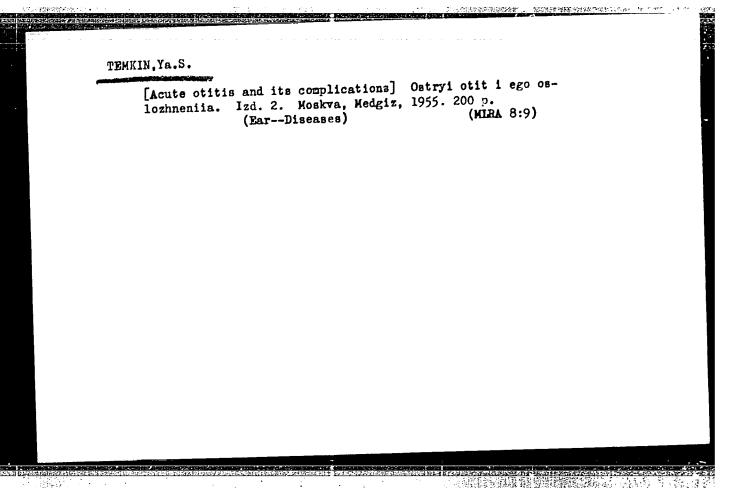
J. P. C. S. W. C. S.

idiais .

[Diseases of the pharynx, larynx, trachea, bronchi, and esophagus necessitating surgery; doctors' handbook] Khirurgicheskie bolesni necessitating surgery; doctors' handbook] Khirurgicheskie bolesni necessitating surgery; doctors' handbook] Khirurgicheskie bolesni necessitating surgery; and trakhei, bronkhov i pishchevoda; rukovodstvo dlia vrachei. Pod red. V.G.Ermolaeva, B.S.Preobrazhenskogo, D.M.Rutenburga vrachei. Pod red. V.G.Ermolaeva, D.G.Ermolaeva, D.G.Erm

TEMKIN, Ya.S., professor (Moscow).

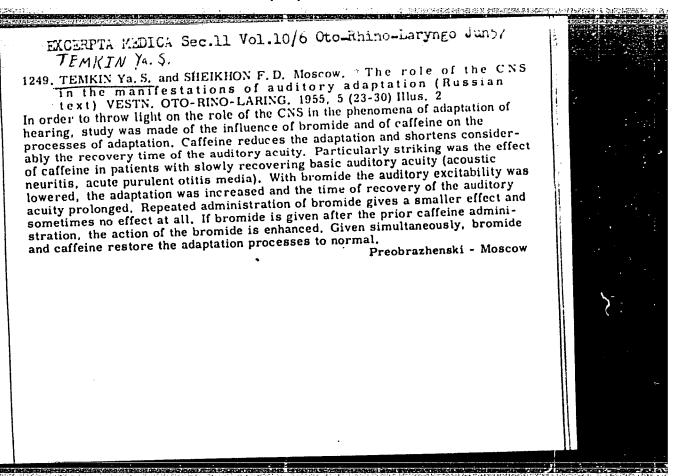
Intramucous nasal novocaine block as a method of reflex influence in certain pathological conditions. Vest.oto-rin. 16 no.1:23-29 (MIRA 7:3) Ja-F '54. (Novocaine)



en alektrika in distriktion in distr

TENKIN, Ya.S., professor, redaktor; MEDVEDEV, N.H., redaktor; BELEVA, M.A., tekhnicheskiy redaktor

[Problems of the pathogenesis, clinical aspects and treatment of deafness; a collection of surveys, and abstracts of abridged translations, foreign periodicals] Voprosy patogeneza, kliniki i lechenia glukhoty; sbornik skorashchennykh perevodov, obzorov i lechenia glukhoty; sbornik skorashchennykh perevodov, obzorov i referatov inostramnoi periodicheskoi literatury. S predisl. IA.S. Temkina, Moskva, Izd-vo inostrannoi lit-ry, 1955. 205 p. (MLRA 9:8) (DEAFNESS)



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TEMNIN, Ya.S., professor

Professor Mygenii Mikhailovich Stepanov; 100th anniversary of his

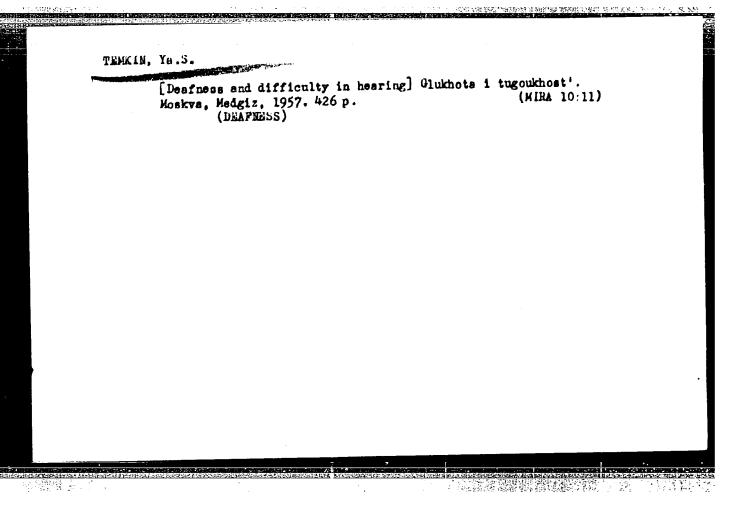
Professor Mygenii Mikhailovich Stepanov; 100th anniversary of his

Professor Mygenii No. 17 no.6:59-63 N-D 155.

(BIOGRAPHIES,

Stepanov, Mygenii No.)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"



TEMEIN, Ye.S., prof. (Moskva)

Current tasks in practical audiology [with summary in English]. Vest.

(MIRA 10:11)

oto-rin. 19 no.5:32-41 S-0 '57.

(HEARING

progr. in audiology in Bussia)

LUKOV, B.N., prof. (Kuybyshev); PETROV, V.I., dotsent (Moskva); PAVIENKO, T.M., aspirant (Moskva); YERMOLAYEV, V.G., prof. (Leningrad); ADO, A.D., prof.; VOVSI, M.S., prof.; YERMOLAYEV, V.G., prof. (Leningrad); KUPRIYANOVA, N.A. (Kazan'); FETROV, G.I. (Moskva); DOLGOPOLOVA, A.V. (Moskva); SAKHAROV, P.P., prof.; BYKHOVSKIY, Z.Ye., prof.; MIN'KOVSKIY, prof. (Chelyabinsk); KHREL CHONOK, I.P. (Irkutsk); TEMKIN, Ya.S., prof. (Moskva); MIN'KOVSKIY, A.Kh., prof. (Chelyabinsk); MIL'SHTEYN, T.N., doktor med.nauk (Leningrad); TRUTNEV, V.K., zasluzhennyy deyatel nauki, prof.; TSYRESHKIN, B.D., kand.med.nauk (Moskva); SOBOL', I.M., prof. (Stavropol'); TURIK, G.M. (Moskva); FRENKEL', M.M. (Moskva); MAZO, I.L.; POKRYVALOVA, K.P.; PROSKURYAKOV, S.A., prof.; ATKARSKAYA, A.A., prof.; GOL'DFARB, I.V., prof. (Izhevsk); PORUBINOVSKAYA, N.M. (Moskva); RUDNEV, G.P., prof.; VOL!FSON, I.Z., prof. (Stalingrad); DOROSHENKO, I.T., prof. (Kalinin); ROZENFEL'D, M.O., prof. (Leningrad); SHUL'GA, A.O., prof. (Orenburg); MIKHLIN, Ye.G., prof.; TRET YAKOVA, Z.V. (Moskva); MANUYLOV, Ye.N., prof. (Moskva); DOROSHENKO, I.T., prof. (Kalinin); YERMOLAYEVA, V.G., prof.

Speeches in the discussion. Trudy gos. nauch.-issl. inst. ukha, gorla i nosa no.11:79-87,129-146,179-186,233-248,311-333 '59. (MIRA 15:6)

1. Chlen-korrespondent AMN SSSR (for Ado). 2. Direktor Moskov-skogo gosudarstvennogo instituta ukha, gorla i nosa (for Trutnev).

(OTORHINOIARYEGOLOGY—CONGRESSES)

TEMKIN, Ya.S.; KUHLANOVA, P.S. Effect of industrial vibrations on the vestibular function. Uch. zap. Mosk.nauch.-issl.inst.san. i gig. no.7:66-73 '60. (MIHA 15:2) (VESTIBULAR APPARATUS)

(VIBRATION__PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

Pathogenesis and clinical aspects of vibratory cochlecvestibular disorders. Vest.otorin. 22 no.3:5-15 My-Jo 160.

(VESTIBULAR APPARATUS—DISEASES)

(VIBRATIONS—PHYSIOLOGICAL EFFECT)

TEMKIN, Ya.S., prof.; KUBLANOVA, P.S., kand.med.nauk Significance of vibrations in industrial production in the

Significance of vibrations in inactions in the state of occupational deafness. Zhur. ush., nos. i pathogenesis of occupational deafness. Zhur. ush., nos. i (MIRA 15:2) gorl. bol. 20 no.6:66-70 N-D '60.

1. Iz klinicheskogo otdela (zav. - kand.med.nauk V.S.Luk'yanov) Nauchno-issledovatel skogo instituta sanitarii i gigiyeny imeni F.F. Erismana. (INDUSTRIAL PLANTS_VIBRATION)
(OCCUPATIONAL DISEASES) (DEAFNE (DEAFNESS)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

PREDICTION OF THE PROPERTY OF

TEMKIN, Ya. S.

Professor Arkadii Arkadievich Bekritskii on his 80th birthday. Vest. otorin. no.5:119 '61. (MINA 14:12)

(BEKRITSKII, ARKADII ARKADIEVICH, 1881.)

TEMKIN, Ya.S., prof. (Moskva)

Unification of methods of clinical hearing examination and standardization of the graphic presentation of its results.

Vest.otorin. 23 no.1:21-30 Ja-F *61. (MIRA 14:2) (HEARING—TESTING)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

· 工工 医乳腺管膜 医腹膜 的复数 电电子设置

UNDRITS, V.F., prof.; TEMKIN, Ya.S., prof.; NEYMAN, L.V., prof.; VOLKOV, Yu.N., red.; KUZ'MINA, N.S., tekhn. red.

[Manual of clinical audiology]Rukovodstvo po klinicheskoi audiologii. Moskva, Medgiz, 1962. 323 p. (MIRA 16:1.) (EAR-DISEASES) (AUDIOMETRY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

D'YACHKOV, A. I.; RAU, F. F.; TEMKIN, Ya. S.; FILIPPOV, M. M.

Doctor of medical sciences Lev Vladimirovich Neiman; on his 60th birthday. Vest. otorin. no.3:111-112 62. (MIRA 15:6)

(NEIMAN, LEV VLADIMIROVICH, 1902-)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

· 持續基準整備 多數的 医治疗的 和

TEMKIN, Ya.S.; KUBLANOVA, P.S.

Cochleovestibular disorders during the prolonged effect of industrial ultrasound. Uch. 2ap. Mosk. nauch.-issl. inst. san. i gig. no.11:41-50 163. (MIRA 17:1)

TEMKIN, Yeall.

Protection of electric motors against operation on two phases. Khol. tekh. 42 no.4:59-60 JI-Ag 165. (MTRA 18:9)

1. Gosudarstvennyy institut to proyektirovaniyu predpriyatiy rybnoy promyahlennosti.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

TEMKIN, Ye. Ya.

Treatment of acute male gonorrheal urethritis with penicillin associated with citrated autohemotherapy with novocaine. Yest. vener., Moskva no.2:56-57 Mar-Apr 1952. (CIML 22:2)

1. Of Tashkent Medical Institute.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

TEMXIN, Z.A. (g. Termez Uzb.SSR.)

Pharmacy work. Apt. delo 3 no.6:30-32 N-D '54. (MIRA 8:2)
(PHARMADY,
in Russia, organis.)

RIMMER, I.M., TEMKIN, Z.A., KLIMENKO, N.S. (Pechenga, Murmanskoy oblasti)

Period of safe utilization of sterile dosage forms perpared in a pharmacy for parenteral administration. Apt.delo 7 no.5:65-67 S-0 '58 (MIRA 11:10)

(DRUGS--PRESERVATION)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

TROKSKAYA, Z.I.; TEMKIN, Z.Ye.; KHETAGUROV, G.D., kand. tekhn. nauk

Quality of nonferrous metal bres and the profitableness of their production; discussion of the article by B.F. Novozhilov. Gor. zhur. no.ll:7-ll N '63. (MIRA 17:6)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy tsvetnoy metallurgii, Moskva (for Trokskaya, Temkin). 2. Sredneaziatskiy filial Gosudarstvennogo nauchno-issledovatel'skogo instituta tsvetnykh metallov, Almalyk (for Khetagurov).

TEMKINA, A.A.; RUBAKHINA, N.N.; NOVIKOVA, N.N.; KVASOVA, E.I.; MOROZOVA, V.V.

Rapid method for determining low molecular compounds in polycaprolactam. Khim.volok. no.6:54-55 '61. (MIRA 14:12)

1. Barnaul'skiy zavod.

(Azepinone)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

TEMKINA, A.A.; ZHUKOVA, S.A.

Oiling preparation for capron fiber. Khim.volok. no.1:66-68

163. (MIRA 16:2)

(Nylon) (Finishes and finishing)

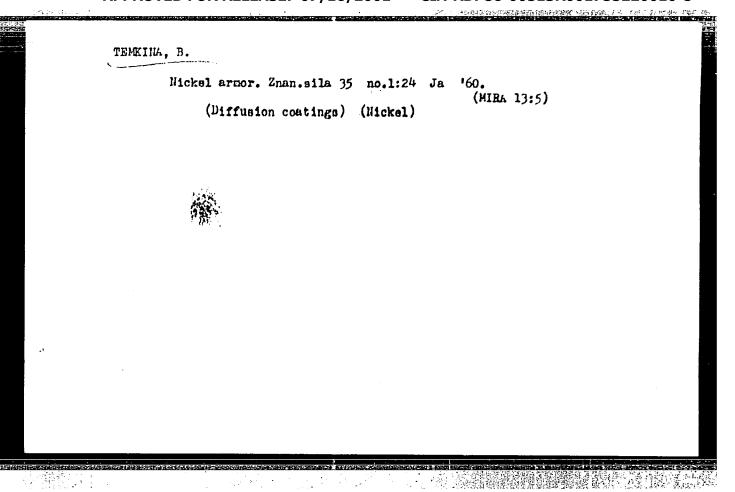
APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

7	Determination of the content of acetic butylamine in a caprolactam melt. Khim.volok. no.1:74 '63. (MIRA 16:2)			
l. Barnaul'skiy zavod. (Buty	lamine) (Azepinone)			

TEMKINA, A.I.

Rapid drop method for determining iron and manganese content of photographic developers. Zhur. nauch. i prikl. fot. i kin. 8 no.4:308 Jl-Ag *63. (MTRA 16:7)

1. Moskovskiy poligraficheskiy institut.
(Photography—Developing and developers)



TEMKINA, B. S.

USSR/Geophysics - Prospecting

Sept/Oct 53

"Review of Symposium 'Frospecting and Industrial Geophysics, " (A. G. Ivanov, reviewer)

Iz Ak Nauk SSSR, Ser Geofiz, No 5, pp 474-476

Favorably reviews the symposium, edited by V. V. Fedynskiy, entitled "Razvedochnaya i promyslovaya geofizika", No 4, Min Petrol Ind USSR, Glavneftgeofizika, Moscow, 1952, 600 copies, price 1.50 rubies. Contributors were: I. K. Kupalov-Yaropolk, G. V. Bereza, A. I. Slutskovskiy, B. S. Temkina, P. I. Lukavchenko, O. A. Shvank, N. A. Per'kov, S. G. Komarov, I. Ye. Eydman, L. M. Yesel'son, and E. E. Fotiadi.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8

TEMKIKA, B.S.; YEZUPOV.F.I.

Data on the theory of resistivity logging obtained as the result of a grid model. Prikl, geofis. no.11:72-91 '54. (MLRA 8:10) (011 well logging, Electric)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8

BAKHVALOV, Grigoriy Tikhonovich; RYMYANTSEV, Nikolay Vasil'yevich; TEMKHA

B.Ys. red.; SUKHAREVA, R.A., tekhn.red.

[Electric metal.plating by using reversible current] Elektroliti-, inhankas nokrytic metalla pri reversivnom toke. Moskva, Mosk. dom nauchno-tekhn.propagandy im. F.B.Dzershinskogo, 1957. 45 p.

(Electroplating)

(Electroplating)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

VISHENKOV, Semen Arkad'yevich; MEL'NIKOVA, M.M., red.; TEMKINA, B.Ya., otv. za vypusk; SUKHAREVA, R.A., tekhn.red.

[Increasing the wear resistance of perts by chemical nicket coating] Povyshenie iznosostoikosti detalei khimicheskim nikelirovaniem. Moskva, 1959. 59 p. (Moskovskii Dom nauchno-tekhnicheskoi propagandy. Peredovoi opyt proizvodstva. Seriia: Progressivnaia tekhnologiia mashinostroeniia, vyp.5) 59 p. (MIRA 13:9)
(Protective coatings) (Nickel plating)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

S/191/60/000/010/016/017 B004/B060

AUTHOR:

Temkina, B. Ya.

TITLE:

Experience of the Moskovskiy dom nauchno-tekhnicheskoy propagandy im. F. E. Dzerzhinskogo (Moscow House for Scientific and Technical Dissemination imeni F. E.

Dzerzhinskiy)

PERIODICAL:

Plasticheskiye massy, 1960, No. 10, pp. 73-76

TEXT: A section for the chemical industry and plastics was established in 1956 at the Moscow House for Scientific and Technical Dissemination. The section is guided by M. I. Garbar. Among its members totaling over 250 are researchers, experts of scientific research institutes, engineers and technicians of Moscow factories. The NII Plasticheskikh mass (Scientific Research Institute of Plastics) has a leading part in this section, and its director M. S. Akutin supervises the seminars. The first seminar "Plastics in Machine Construction" was held in March-April, 1957. Over 5000 persons attended 17 sessions. On exhibition were products made of new plastics, as well as literature on plastics. The following

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Experience of the Moskovskiy dom nauchno- S/191/60/000/010/016/017 tekhnicheskoy propagandy im. F.E. Dzerzhinskogo B004/B060 (Moscow House for Scientific and Technical Dissemination imeni F. E. Dzerzhinskiy)

lectures are mentioned. "Epoxy Resins in Machine Construction" (M.S. Akutin); "Novel Methods of Producing Punches and Models of Epoxy Resins" (B. S. Gracheva); "Application of New Types of Nitrogen-containing Plastics in Machine Building" (L. M. Pesin); "Resins for Casting Molds in Foundry Works" (N. V. Shorygina); "Pressed Materials of the Phenolit and Decorrosit in Machine Building" (L. V. Pevzner); "High-stability Pressed Materials of the QKT (FKP) Type in Machine Building" (S.M. Rabits); "Fluoropolymers and Their Range of Application in Machine Building" (V. N. Kotrelev); "Building Loams as a Substitute for Lead - Tin Solder in the Soldering of Joints in Machine Building" (G. S. Brodskiy); "Application of Polyamide Materials in Machine Building" (K. N. Vlasova); "Methods of Processing Plastics Into Finished Products" (M. G. Gurarry); "Device for the Semiautomatic Control of Hydraulic Presses with Series Drive" (V. K. Zavgorodniy); "Situation of Plastics Abroad" (M.I. Garbar); "Ornamental Laminated Plastics Abroad" (V. N. Gorbunov); "Use of Organosilicon Plastics in Machine Building" (V. I. Pakhomov); "Glass Reinforced Plastics and Their Application in Machine Building" (P. Z. Li); "Modera

Card 2/5

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Experience of the Moskovskiy dom nauchno- S/191/60/000/010/016/017 tekhnicheskoy propagandy im. F.E. Dzerzhinskogo B004/B060 (Moscow House for Scientific and Technical Dissemination imeni F. E. Dzerzhinskiy)

Building of Molds for the Manufacture of Units From Plastics" (M. P. Shapenkov). Among those participating in the discussion were N. S. Morozov, V. P. Perepelkin, V. K. Zavgorodniy, M.M. Sukhobokova, I. M. Epshteyn, I. I. Mikhalev, Ya. D. Avrasin, L. V. Popova, A. K. Vardenburg, N. F. Gusev, L. B. Azar'yan, L. M. Bernshteyn, A. V. Koval'skaya L. G. Petrova, I. Ya. Al'shits, K. N. Strel'tsov, M. S. Krichevskiy. The seminar was followed by a four-month cycle of lectures on the subject: "Machinery for the Processing of Plastics Into Finished Products by Way of Pressing and Casting Under Pressure". Lectures on the subject were delivered by A. N. Levin, V. A. Veselov, V. K. Zavgorodniy, V. V. Lapshin, B. M. Notkin, N. S. Morozov, P. V. Izrailev. Since there is little available in the literature concerning the use and processing of plastics, the section has published a compendium "Plastmassy v mashinostroyenii" which appeared in 1959. Following the plenary meeting of the Tsk KPSS (Central Committee of the Communist Party of the USSR) in May of 1958 the section jointly with the Scientific Research Institute of Plastics and VDNKh SSSR (Exposition of the Achievements of National Economy in the USSR) Card 3/5

Experience of the Moskovskiy dom nauchno- S/191/60/000/010/016/0:7 tekhnicheskoy propagandy im. F.E. Dzerzhinskogo B004/B060 (Moscow House for Scientific and Technical Dissemination imeni F. E. Dzerzhinskiy)

held a second seminar on "Use of Plastics in Machine- and Instrument Construction". Lectures were delivered by M. S. Akutin, V.N. Kotrelov. L. V. Pevzner; other reports dealt with the experience gathered with antifriction material at the Moskovskiy tormoznyy zavod (Mosacow Brake Works) Zubonosov; other lecturers were K. M. Saldadze, N.V. Andrianova, M. A. Stal'nova, Z. S. Utyanskiy, P. Z. Li, L. B. Azar'yan, A. N. Nikolayez, Ye. G. Prokopenko, V. V. Lapshin, M. P. Shapenkov, Yu. M. Ivanov, G. A. Khotmakher, Fredichkova, et al. An exposition "Plastics in Machine Construction" was also organized. Furthermore, a number of lectures on chemistry was delivered by I. P. Losev, A. B. Davankov, N. Ye. Ogneva, I. V. Kamenskiy, A. A. Berlin jointly with the AN SSSR otdeleniye khimicheskikh nauk (AS USSR Department of Chemical Sciences), the MKhTI im. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev), and the Scientific Research Institute of Plastics. Seminars were also held on "Use of Polymers in the Food Industry", "Manufacture of Punches and Models of Plastics", "Artificial and Synthetic Fibers", "Use of Plastics in the Manufacture of Machine Tools". "Use of Plastics in

Card 4/5

Experience of the Moskovskiy dom nauchnotekhnicheskoy propagandy im. F.E. Dzerzhinskogo B004/B060 (Moscow House for Scientific and Technical Dissemination imeni F. E. Dzerzhinskiy)

Construction". In view of the fact that the Moscow Center was not in a position to serve all the parties concerned, the first Vsesoyuznyy zaochnyy seminar (All-Union Correspondence Seminar) was held on the subject "Use of Plastics in the Machine and Instrument Construction". In the time from April to May, 1960 a number of lectures was delivered on the subject "Electrical Insulators, Plastic Compounds, and Impregnating Mixtures" held by A. V. Vardenburg, R. S. Kholodovskaya, K. I. Zabyrina, V. A. Koval'skaya, M. A. Stal'nova, L. A. Rodivilova, L. B. Azar'yan, Ye. I. Fridman, L. M. Bernshteyn. Now being prepared is the edition of a second compendium "Plastics in Machine Building", 32 printed sheets, which comprises the subjects dealt with by the correspondence seminar and other lectures. For 1961, it has been planned to hold special seminars, to improve the correspondence seminars, to enlarge the exposition, to continue with the lectures on chemistry, and to promote the exchange of experience among industrial plants. There is 1 figure.

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

S/191/60/000/010/017/017 B004/B060

AUTHOR:

Temkina, B. Ya.

TITLE:

Seminar on Welding of Plastics

PERIODICAL:

Plasticheskiye massy, 1960, No. 10, pp. 76-78

TEXT: The author reports on the material of the Seminar on the welding of plastics which took place at the Moskovskiy Dom nauchno-tekhnicheskoy propagandy im. F. E. Dzerzhinskogo (Moscow House of Scientific and Technical Dissemination imeni F. E. Dzerzhinskiy) in June, 1960. An experience exchange was made, and results obtained by the NIIPM (Scientific Research Institute of Plastics) and other research institutes and design offices are reported. The Seminar was opened by A. Ya. Kazhden. Lectures are mentioned: N. A. Grishin on a work conducted jointly with S. S. Voyutskiy and M. M. Gudimov "Weldability of Thermoplasts".

I. G. Fedorova on welding of plastics by high-frequency current (20-70Mc/sec) and experience made therewith at the Leningradskiy zavod im. Karla Marksa (Leningrad Plant imeni Karl Marx), Okhtinskiy khimkombinat (Okhta Chemical Combine). Capital investments are paid off within 3-5 months.

Card 1/3

Seminar on Welding of Plastics

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Besides the welding of viniplast also the welding of polyamide, triacetate. and polycaprolactam films, and ftoroplast-3, polyethylene with fillers are dealt with. Z. A. Kogan reported on experience in the welding of polyvinyl chloride films by apparatus B4C-0.4 (VChS-0.4) and B4C-0.2 (VChS-0.2), built by the Nauchno-issledovatel'skiy institut tokov vysokoy chastoty (Scientific Research Institute of High-frequency Currents) and used successfully at the zavod "Dinamo" ("Dinamo" Plant) in Moscow. V. S. Sarychev reported on high-frequency welding of working clothes from plastic films by means of the MFA-1 (LGD-1) generator, 25-30 Mc/sec, 1 kw. V. V. Chudinov reported on high-frequency welding of floor coverings in industrial buildings from 2-4 mm thick polyvinyl chloride masticated rubber. At a welding rate of 0.5-1 m/min the seam size is 80-85% of the material strength. A traveling apparatus of the type CNT (SPP) and a fixed one, and moreover, a hand-operated CTTP(SPPR) have been developed for large areas. A. V. Mordvintsev reported on welding of plastics by means of ultrasonics. Machines which are able to weld films up to 10 mm thick have already been designed for this procedure. Bogdashevskiy dealt with the thermal calculation of welding by ultrasonics. N. A. Grishin reported on thermopulse welding. D. V. Mondrus presented a welding

Card 2/3

Seminar on Welding of Plastics

S/191/60/000/010/017/017 B004/B060

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apparatus which is heated by means of resistor elements. O. A. Kotovshchikov reported on the mechanized welding of fluoroplastics up to 200 microns thick, and fabric-reinforced plastics up to 300-350 microns thick by means of the MCII-4 (MSP-4) machine. The following data are given rate at a thickness of 40-50 microns, 14-16 m/h; at 200 microns, 4-5 m/h. The maximum strength of the welding joint is 0.2-0.3 kg/cm². The said and Copolymer-62. G. Z. Vashin reported on experience gathered by the made of plastics. I. A. Nemkovskiy Chemical Factory) in welded structures apparatus for plastics.

Card 3/3

DZYUBENKO, M.S.; TEMKINA, B.Ya.; MURADOVA, A.A., red.; TORSHINA, Ye.A., tekhn. red.

[Protective and decorative coatings on objects of aluminum alloys]Zashchitno-dekorativnye pokrytiia izdelii iz aliuminie-vykh splavov. Moskva, TSentr.biuro tekhn.informatsii, 1961. 75 p. (MIRA 16:2)

1. Russia (1917- R.S.F.S.R.) Moskovskiy gorodskoy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva.

(Aluminum alloys) (Protective coatings)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220010-8"

<u>等等認識的</u>是基礎的的概念

S/118/61/000/001/005/005 A161/A133

AUTHOR: Temkina, B.Ya.

- 111 414

TITLE: Automation and mechanization of production processes in the chemical industry

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 1, 1961, 60-61

TEXT: The author reports on a seminar on the practical application of automation and mechanization in the chemical industry which was conducted at the Moskovskiy dom nauchno-tekhnicheskoy propagandy (Moscow House of Scientific and Technical Propaganda). N.N. Yelshin, Head of the Automation Department of Goskomitet Soveta Ministrov SSSR po khimii (State Committee for Chemistry of the Council of Ministers of the USSR) reported on the general automation principles in chemical plants and the work to be accomplished of institutes, designers and planners. D.V. Ivanyukov, Director of the Moskovskiy neftepererabatyvayushchiy zavod (The Moscow Petroleum Refinery) described the overall automation at the refinery with the unprecedented application of "agre-Card 1/5

S/118/61/000/001/005/005 A161/A133

Automation and mechanization of production ...

gatnaya unifitsirovannaya sistema", or "AUS" units (overall standardized system units), with cascade control and the replacement of the many production shops by only three - the technological, raw material, and power department, all controlled from one operator station in the center of the refinery, with five duty dispatcher-operators. The refinery has an experimental cracking plant especially for the checking the joint control system, the dependability and efficiency of automatic controls. The instruments determining the product quality in processes (viscosimeters, refractometers, chromothermographs, analyzers for water content in oil, automatic fractional sublimation plants etc.) have been working successfully for two years and their utilization for other refineries under construction is recommended. I.A. Burovoy, (of Gintsvetmet) treated the automation problems of calcination process in the "boiling layer". The institute has analyzed the basic heat parameters of the process and obtained for the first time equations for the calculation of the interrelations of zinc concentrates and pyrites. Automatic scales have been applied for the dosing of loose humid and slow-drying materia. A.A. Kalitkin, Superintendent of the "KUM" ("KIP") shop of the Shchelkovskiy khimicheskiy zavod (Shchelkovo Chemical Plant) reported on the automation of the drying and adsorption department in the contact apparatus shop, "boiling

Card 2/5

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S/118/61/000/001/005/005 A161/A133

Automation and mechanization of production ...

layer" furnaces, an experimental kiln for high-temperature calcination of pyrite. V.M. Dobkin (of NIOPIK) reported on the automation of contact processes, i.e. automatic systems with stabilized parameters, and ways for designing optimum control. Ya.A. Shkolovskiy, of a Bashkirian refinery reported that an automation group is working at the refinery. It includes two engineers, two foremen and twenty fitters and instrumentmakers. They do the assembling and setting, make some devices, supervise the operation of new systems, and after testing, put them into service, and train personnel. The group is also working on new control and automation problems. A.V. Korchinskiy and L.A. Kotenko described the work of the TsNIIK laboratory on the automation of ammonia production at the Dneprodzerzhinskiy azotno-tukovyy zavod (Dneprodzerzhinsk Nitrogen Fertilizer Plant) and Stalinogorskiy khimicheskiy kombinat (Stalinogorsk Chemical Combine): the automatic control of ammonia synthesis of coke gas separation, distribution of gaseous ammonia, etc. N.S. Zayarnyy (of GIAP) treated the simulation of the statics of ammonia synthesis reactors with electronic continuous-action computers. This is a new trend in the studies of physical and chemical processes to find the optimum processing conditions. A.A. Tal', of IAT AN SSSR (IAT AS USSR) spoke on the application of pneumatic computers and logic devices in the chemical industry. A pneumatic computer was demonstrated. N.Ya. Parlashkevich, M.N. Luzh-Card 3/5

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Automation and mechanization of production ...

kov, of NIIPlastmass and others reported on the automation of phenol-formaldehyde resin production at the plastics plant in Nizhniy Tagil. The automation is based on their electric conductivity and viscosity. V.K. Zavgorodniy. of the Karacharovskiy (Karacharovo) Plastics Plant reported that several plants (the Karacharovo, "im. Komsomol'skaya pravda", the "Karbolit" in Kemerovo and "Karbolit" in Orekhovo-Zuyevo) have started to utilize high-frequency generators for preheating, and have established semi-automatic control devices for presses. All production processes are automated, from pelleting to packaging of the ready products. I.F. Kozlov told of the development of pneumatic "AUS" system instruments for the automation of chemical production processes, and described three new units of the "cascade" control. The $\mathbf{6}\Phi$ -2 (BF-2) unit produced by NIITeplopribor in cooperation with the "Tizpribor" plant can multiply the values of two pneumatic signals, raise to the second power and extract the square root from the pneumatic signal value. The units have made the "AUS" system more flexible and the cascade system more simple. S.I. Mordovskiy told of automatic control systems for drying units (centrifuges, filters, machines for the treatment of rubber and plastics, evaporators, crystallizers, gas and air compressors, etc.). B.I. Yelagin described the automatic "Mars" machines for recording and signalization. This new sys-

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Automation and mechanization of production ...

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tem is coming into use for the automatic control of chemical processes. A "Mars-200" at the "Krasnyy bogatyr'" plant reduced rejects of rubber boots and yielded an annual economy over 300,000 roubles. A.N. Ivanov (of NIISCh-ETMASh) reported on an electronic machine recording automatically the process parameters. One experimental machine is working at the Stalinogorsk Chemical Combine. S.Ya. Rombro (of GIAP) spoke of a "TTY-OM" (PTU-OM) industrial TV set being widely used, whose major drawback is the impossibility of remote-controlling the camera turn and lens setting. The GIAP laboratory transmission of instrument readings. This is important for work with control objects in dangerous or inaccessible places. GIAP has tele-mechanized the control of power equipment at the Lisichanskiy khimicheskiy kombinat (Lisi-radiations (alpha, beta, gamma, X-ray, neutrons) for the measurement of various process parameters.

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AUTHOR:

Temkina, B. Ya.

TITLE:

Protective and ornamental coatings of aluminum and its alloys

PERIODICAL:

Mashinostroitel, no. 5, 1961, 30 - 34

The author gives an extensive description of various methods of applying protective and ornamental coatings to aluminum and its alloys, making use of the materials of a seminar which was taking place in October 1960 at the Moskovskiy dom nauchno-tekhnicheskoy propagandy im. Dzerzhinskogo (Mostow House of Szientific and Technical Propaganda imeni Dzerzhinskiy). Referring in the first of Szientific and Technical Propaganda imeni Dzerzhinskiy). Referring in the first of Szientific and Technical Propaganda imeni Dzerzhinskiy). Referring in the first of Szientific and Technical Propaganda imeni Dzerzhinskiy). Referring in the first of eveloped a system of possible sequences of operation in the preparation of parts for anodic oxidation. Depending on the electrolyte in which the oxide films are formed, the latter are divided into three groups: 1) thin, solid nonporous films formed, the latter are divided into three groups: 1) thin, solid nonporous films utilized in electric capacitors; 2) porous films of $5 - 12\mu$ thickness used for protective and ornamental purposes, and 3) thick oxidation coatings (30 - 300 μ) whose production method has been developed by N. D. Tomashovyy and M. N. Tyukina at the institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry AS

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Protective and ornamental coatings ...

USSR). Thick films are very porous, e.g., the porosity of a 100 mm thick film amounts to 20% for aluminum and 35% for the AK-4 alloy. From 1959 to 1960 investigations were carried out at the ENIMS to study the process of thick-layer anodi: oxidation of secondary aluminum alloys, e.g., AJ 108 (ALIOV). containing a large amount of copper and silison. It is recommended to treat the parts being ancdized in sulfuric acid (180 - 200 g/l) at temperatures in the range of -10 to -5°C at an anode current density of 2.5 - 5 amp/dm2. At the Institute of Physical Chemistry investigations were carried out to study the properties and structure of thick--layer anodic coatings on aluminum. The hardness of anodic films is determined by its structure. With an increased dimension of the exide cells, forming the coating, the microhardness of the film increases. The wear of anodic films decreases with an increased current density. The quality of anodic films on duralumin and silumin can be raised by increasing the sulfuric acid concentration (300-350 g/l) at a temperature of the bath of -7°C. To prevent rejects 1t is recommended to use combined currents, 1. e. superimposing alternating current on direct current. It was found as a result of the investigations that the optimum current, densities for the anodizing of duralumin by combined currents are: 5 amp/dm2 cf a-c and 5 amp/dm² of d-3 at a ratio of 1:1. Anodic films of up to 100 - 120 μ thickness and 510 kg/mm² microhardness can be obtained on silumin. M. Ya. Adamova

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Protective and ornamental coatings ...

and Ye. I. Fridman obtained films up to 150 μ thick from sulfuric acid and oxalic acid electrolytes with a minimum relative porosity. Commenting on the technology of electric insulation anodizing the author points out that, in order to obtain high-quality thick films under any anodizing conditions, the anodizing proces should be finished before the tension is starting to decrease. In cooled electrolytes at high current densities the film formation process is taking place 5 - 6 times faster than in non-cooled electrolytes. It was found that the upper current density limit in an oxalic acid electrolyte is 4 amp/dm2 at 2.5°C. The laboratoriya stroyeniya poverkhnostnykh sloyev (Laboratory of Surface Layer Structures) of the Institute of Physical Chemistry AS USSR has been investigating methods of obtaining protective films of aluminum phosphates and chromium phosphates on aluminum and its alloys. The films are degreased, washed, passivated washed again, treated in 0.5% chromium anhydride solution and then dried in air at room temperatures. The phosphating solution is composed of 50 g/1 H3PO4, 1.5 - 2.0 g/1 KHF2 and 4-10 g/1 CrO₃. The chromating solution consists of 4-8 g/1 CrO₃ (or 1.5-2.0 g/1 KHF₂), 1.5 - 2.0 g/1 NH₄HF₂ and 0.5 - 1.0 g/1 K₃Fe (CN)₆. The process is taking place at room temperature during 0.5 - 3 minutes. The Scientific Research Institute of Non-Ferrous Metals of the Hungarian People's Republic is developing processes of rapid anodizing to obtain a dependable elastic layer with a good

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breakdown voltage. Baths were used in which the oxidation process does not take more than 45 - 60 minutes, the baths being prepared either on the base of sulfuric acid (2% H2SO4, 3.5% MgCl2) operating on a-c or on the base of organic acids (20% H2SO4, 2 g/1 NaCl or 0.5 g/1 MgCl2) operating on d-c. Doctor Pai Csokan (Hungarian People's Republic) has developed an original method of coating aluminum with hard and wear-resistant films. The thickest oxidation films were obtained at a voltage of 50 v and a temperature of 1°C. Within 30 minutes it is possible to obtain a coating of 150 - 200 thickness. In Hungary a special spray head has been designed to apply the electrolyte to the part by atomization. A film of 2-t μ thickness forms a stable bond with lacquer and paint coatings. The Moskovskiy furnitunyy zavod (Moscow Accessory Plant) together with the "TsNIIMshdetal" Institute has developed a new method of polishing and anodizing small parts which need not be suspended. The installation for the chemical polishing consists of four baths positioned in series in which greasing, chemical polishing and washing in water is effected. The author than describes a process which he calls "ematalirovaniye", which is a process of obtaining dead enamel-like anodic films by introducing into pores of the film immediately during electrolysis the oxides of some metals: titanium, zirconium, thorium. The films treated in such a way are highly corrosion and wear resistant. "Ematalirovaniye" is carried out in an

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electrolyte composed of 1.2 g/l oxalic acid, 8 g/l boric acid, 1 g/l citric acid, 40 g/l oxalic acid titanium-potassium. In the field of enameling good results have been obtained by using lead enamels which possess good fusibility, electric insulation properties and heat-resistance up to 350°C. The Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet) has developed lead, non-lead, silicate and phosphate enamels for the coating of large-size parts of various configuration. At the Mechanical Engineering Plant in Smela (UkrSSR) an interesting enameling installation with induction heating is used making it possible to automate the enameling process. Galvaning platings are used to improve the surface of aluminum. The chemical nickel-plating of aluminum and its alloys ensures the operation of parts at temperatures in the range of 200 - 300°C. The author gives a short description of the technology of chemical nickel-plating and points out that this process is taking place at temperatures of 75 - 80°C during 50 - 55 minutes. The author then mentions the electrochemical method of deburring parts of aluminum alloys and points out that already in 1959 investigations were carried out at the ENIMS to find an electrochemical method of deburring parts made of carbon and low-carbon steels. On a special installation cast alloys and alloys being deformed -AN-4 (AL-4), AK -4 (AK-4), AJ-108 (AL-10V) - were tested. The most suitable solutions were found to be sodium chloride and sodium nitrate. To prevent the precipitation of metal Card 5/6

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hydroxides forming during the anodic dissolving it is recommended to add tartaric acid, citric acid or their salts to the solution. The author then describes the process of deep etching which is based on the dissolving of metals in especially selected etching solutions. With this method the metal can be removed either over the whole surface of the part being treated or from individual sections. The process of deep etching consists of the following basic operations: preliminary preparation, application of chemically stable protective coatings to the surface of the part being treated, etching, elimination of the anodic film and final protection from corrosion. There is I figure and I table.

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PHASE I BOOK EXPLOITATION

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Temkina, Berta Yakovlena

- Progressivnaya tekhnologiya naneseniya gal'vanicheskikh i khimicheskikh pokrytiy (Advanced Technology of Electrolytic and Chemical Deposition of Coatings), Moscow, Mashgiz, 1962. 174 p. 11,000 copies printed.
- Reviewer: P. L. Feygel'shteyn, Engineer; Ed. of Publishing House: N. P. Yevstaf'yeva; Tech. Ed.: L. A. Vladimirova; Managing Ed. for Literature on Chemical and Textile Machine Building: V. I. Rybakova, Engineer.
- PURPOSE: This book is intended for engineering personnel of electroplating shops at machine-building plants.
- COVERAGE: The book contains materials reviewed at seminars of MINTP imeni F. E. Dzerzhinskiy, as well as materials based on the experience of plants. Modern, most advanced preparatory processes and processes of electrolytic and chemical deposition of coatings as applied by modern machine-building plants are outlined. Information on the eqipment, accessories, and auxiliary materials used in carrying out these processes is given along with a description of specific

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dvanced Technology of Electrolytic	(00200)	S0V/6046
features of the preparation of met tion of coatings. No personalitie of which 84 are Soviet, 4 English,	es are mentioned.	. There are 91 references
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TEMKINA, B.Ya., spets. red.; IOFINCVA, TS.B., red.

[Frotective-ormanental coatings of household goods]
Zashchitno-dekorativnye pokrytiia izcelii bytovogo
naznacheniia. Moskva, Gosbytizdat, 1963. 177 p.
(EIRA 17:10)

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PHASE I BOOK EXPLOITATION

SOV/6503

Eychis, Andrey Petrovich, and Berta Yakovlevna Temkina.

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Tekhnologiya pov rkhnostnoy obrabotki alyuminiya i yego splavov (Methods of Surface Treatment of Aluminum and its Alloys). Moscow, Mashgiz, 1963. 253 p. 5200 copies printed.

Reviewer: Z. I. Didyukov, Engineer; Ed.: D. V. Rikberg; Tech. Ed.: M. S. Gornostaypolskaya; Chief Ed.: Mashgiz (Southern Dept.): V. K. Serdyuk, Engineer.

PURPOSE: This book is intended for engineering personnel of coating shops and may also be useful to engineers and designers engaged in designing metal structures made from aluminum and its

COVERAGE: The book describes modern processes of surface treatment of aluminum and its alloys and various methods of coating metallic and nonmetallic materials with aluminum. Besides the procedures of protective and decorative coating, attention is given in this book to special types of surface treatment such as chemical milling, thick anodizing, and photochemical etching,

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Methods of Surface Treatment (Cont.) which extend the application range of aluminum as a and coating material. No personalities are mentione are 99 references 53 Scriet, 31 English, 10 German, and 1 Croatian.	SOV/6503 structural d. There 4 French,
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